



MATHS

NCERT - NCERT

MATHEMATICS(BENGALI ENGLISH)

CO-ORDINATE GEOMETRY

Example

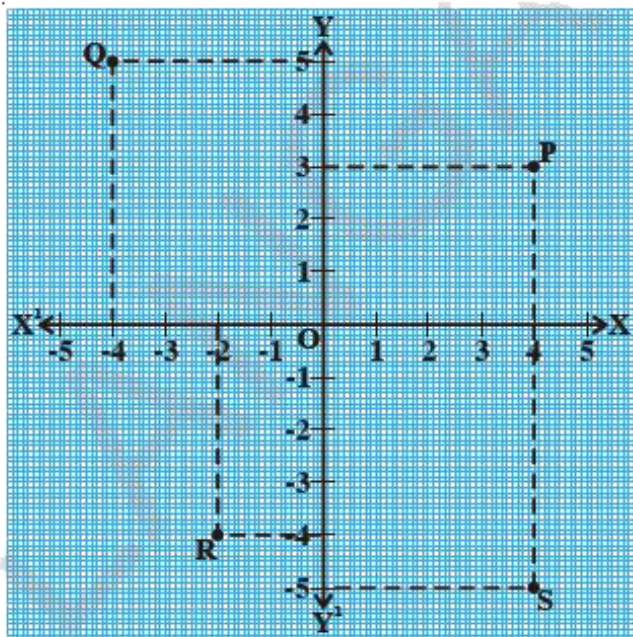
1. State the abscissa and ordinate of the following points and describe the position of

each point (i) $P(8,8)$ (ii) $Q(6,-8)$.



Watch Video Solution

2. Write the coordinates of the points marked in the graph.

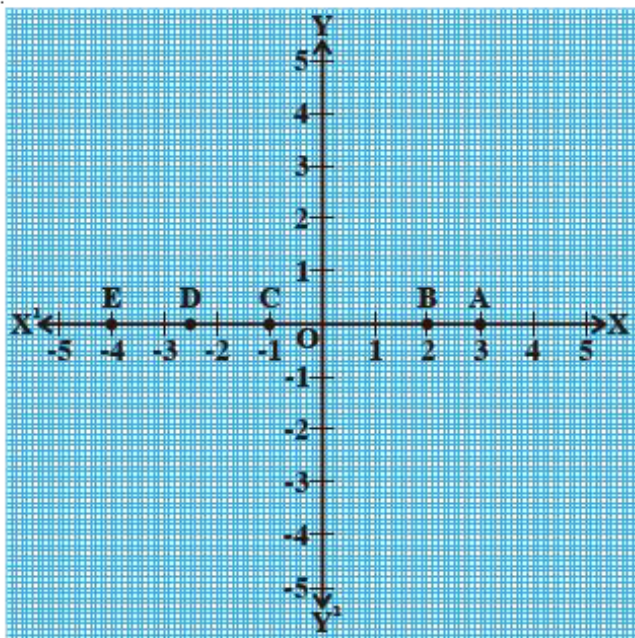




Watch Video Solution

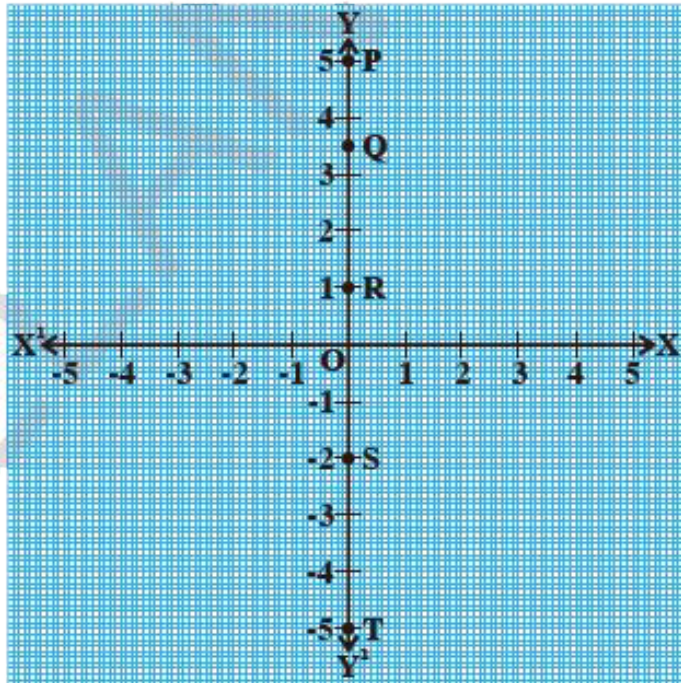
3. Write the coordinates of the points marked

in the graph.



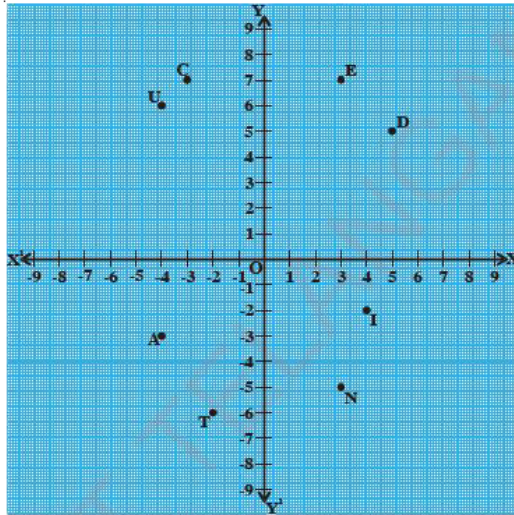
Watch Video Solution

4. Write the coordinates of the points marked in the graph.



Watch Video Solution

5. Complete the table based on the following



Point	Abscissa	Ordinate	Co-ordinates	Quadrant	Signs of co-ordinates
E	3	7	E (3,7)	Q_1	(+, +)
D	.....	.....	.....	.....	.....
U	-4	6	U (-4,6)	.....	(-, +)
C	.....	.....	.....	.....	.....
A	-4	-3	A (-4, -3)	.....	(-, -)
T	.....	.....	.....	.....	.....
I	4	-2	I (4, -2)	.....	(+, -)
O	.....	.....	.....	.....	.....
N	.....	.....	.....	.....	.....

graph.



Watch Video Solution

6. Plot the following points on a Cartesian plane.

(i) B(-2,3) (ii) L(5,-8) (iii) U(6,4) (iv) E(-3,-3)



[Watch Video Solution](#)

7. Plot the points T(4,-2) and V(-2,4) on a cartesian plane. Whether these two coordinates locate the same point?



[Watch Video Solution](#)

8. Plot the points A(2,2) B(6,2), C(8,5) and D(4,5) in a graph sheet. Join all the points to make it is a parallalogram. Find its area.



[Watch Video Solution](#)

Exercise 5 1

1. In a locality, there is a main road along North-South direction.

The map is given below. With the help of the picture answer the following questions.

(i) What is the 3rd object on the left side in street no 3?

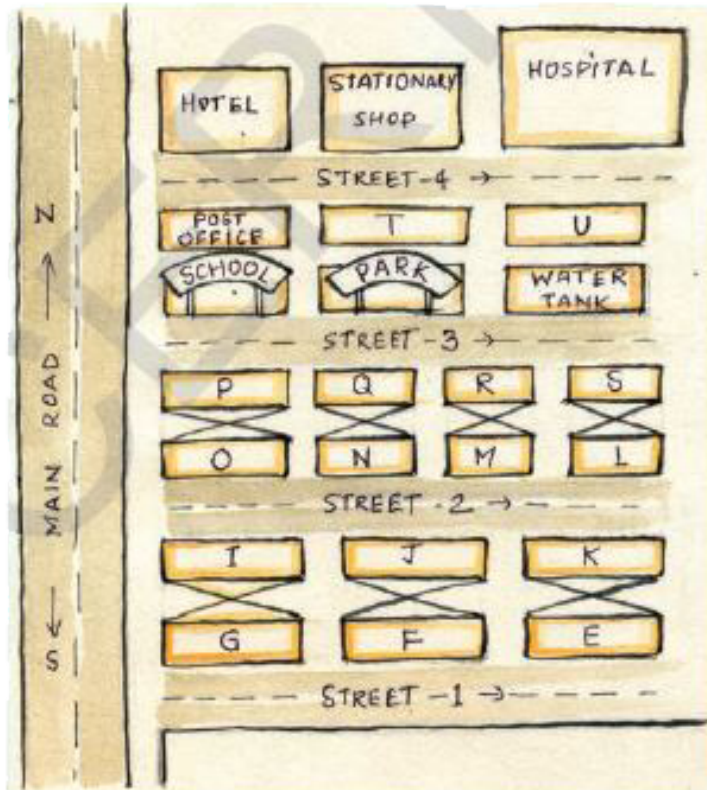
(ii) Find the name of the 2nd house which is in right side of street 2.

(iii) Locate the position of Mr. K's house.

(iv) How do you describe the position of the post office.

(v) How do you describe the location of the

hospital?



Watch Video Solution

Exercise 5 2

1. Write the quadrant in which of the following points lie?

(i) $(-2,3)$ (ii) $(5,-3)$ (iii) $(4,2)$ (iv) $(-7,-6)$

(v) $(0,8)$ (vi) $(3,0)$ (vii) $(-4,0)$ (viii) $(0,-6)$



[Watch Video Solution](#)

2. Write the abscissae and ordinates of the following points.

(i) $(4,-8)$ (ii) $(-5,3)$ (iii) $(0,0)$ (iv) $(5,0)$ (v) $(0,-8)$



[Watch Video Solution](#)

3. Which of the following points lie on the axes? Also name the axis

(i) (-5,-8) (ii) (0,13) (iii) (4,-2) (iv) (-2,0)

(v) (0,-8) (vi) (7,0) (vii) (0,0)



Watch Video Solution

4. Write the following based on the graph

(i) The ordinate of L

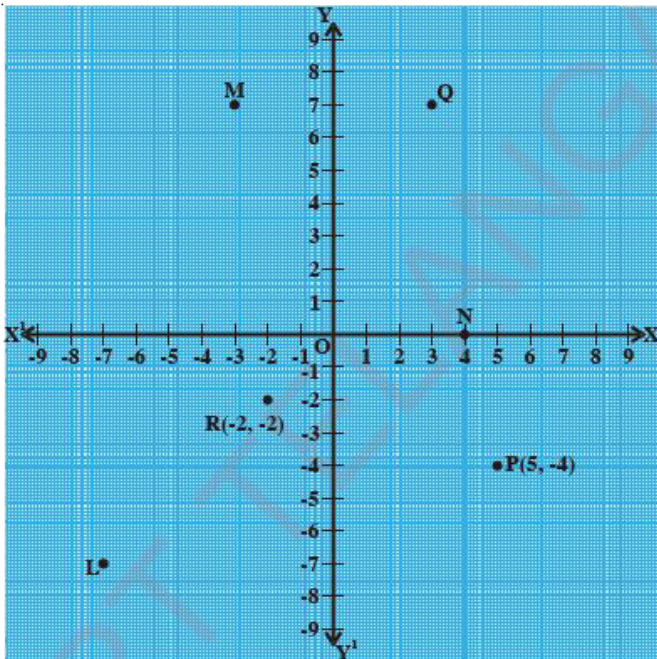
(ii) The ordinate of Q

(iii) The point denoted by (-2,-2)

(iv) The point denoted by $(5,-4)$

(v) The abscissa of N

(vi) The abscissa of M



Watch Video Solution

5. State True or False, if 'false' write correct statement.

In the Cartesian plane the horizontal line is called Y-axis.



[Watch Video Solution](#)

6. State True or False, if 'false' write correct statement.

In the Cartesian plane the vertical line is called Y-axis.





[Watch Video Solution](#)

7. State True or False, if 'false' write correct statement.

The point which lies on both the axes is called origin.



[Watch Video Solution](#)

8. State True or False, if 'false' write correct statement.

The point $(2,-3)$ lies in the third quadrant.



[Watch Video Solution](#)

9. State True or False, if 'false' write correct statement.

$(-5,-8)$ lies in the fourth quadrant.



[Watch Video Solution](#)

10. State True or False, if 'false' write correct statement.

The point $(-x,-y)$ lies in the first quadrant where

$$x < 0, y < 0.$$



[Watch Video Solution](#)

11. Plot the following ordered pairs on a graph sheet. What do you observe?

(i) $(1,0), (3,0), (-2,0), (-5,0), (0,0), (5,0), (-6,0)$

(ii) $(0,1),(0,3),(0,-2),(0,-5),(0,0),(0,5),(0,-6)$



[Watch Video Solution](#)

Exercise 5 3

1. Plot the following in the Cartesian plane whose x, y co-ordinates are given

x	2	3	-1	0	-9	-4
y	-3	-3	4	11	0	-6
(x, y)						



[Watch Video Solution](#)

2. Are the positions of $(5, -8)$ and $(-8, -5)$ is same?

Justify your answer.



[Watch Video Solution](#)

3. What can you say about the position of the points $(1,2)$, $(1,3)$, $(1,-4)$, $(1,0)$ and $(1,8)$. Locate on a graph sheet.



[Watch Video Solution](#)

4. What can you say about the position of the points $(5,4)$ $(8,4)$ $(3,4)$, $(0,4)$, $(-4,4)$, $(-2,4)$? Locate the points on a graph sheet. Justify your answer.



 [Watch Video Solution](#)

5. Plot the points $(0,0)$, $(0,3)$, $(4,3)$, $(4,0)$ in graph sheet. Join the points with straight lines to make a rectangle. Find the area of the rectangle.



[Watch Video Solution](#)

6. Plot the points $(2,3)$, $(6,3)$ and $(4,7)$ in a graphsheet. Join them to make it a triangle. Find the area of the triangle.



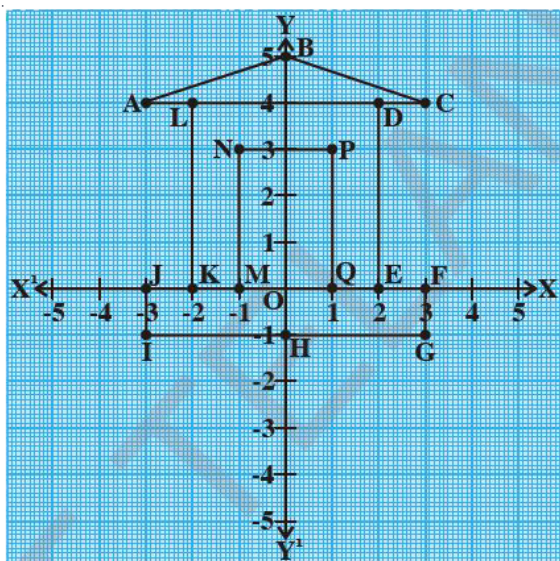
[Watch Video Solution](#)

7. Plot at least six points in a graph sheet, each having the sum of its coordinates equal to 5.



[Watch Video Solution](#)

8. Look at the graph. Write the coordinates of the points A,B,C,D,E,F,G,H,I,J,K,L,M,N,P,O and Q



[▶ Watch Video Solution](#)

9. Find distance between the points (5,5) and origin.

[▶ Watch Video Solution](#)

10. Find distance between the points $(8,12)$ and origin.



[Watch Video Solution](#)

Do This

1. Describe the sitting position of any five students in your classroom.



[Watch Video Solution](#)

2. Plot the following points on a Cartesian plane

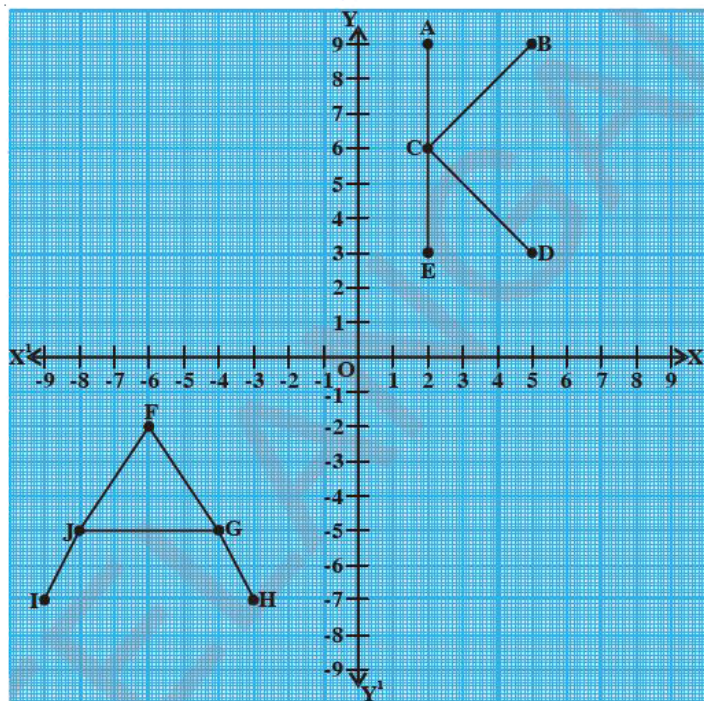
(i) B(-2,3) (ii) L(5,-8) (iii) U(6,4) (iv) E(-3,-3)



[Watch Video Solution](#)

3. (i) Write the coordinates of the points A,B,C,D,E.

(ii) Write the coordinates of F,G,H,I,J



[Watch Video Solution](#)

4. Among the points given below some of the points lie on X-axis. Identify them

(i) (0,5) (ii) (0,0) (iii) (3,0)

(iv) (-5,0) (v) (-2,-3) (vi) (-6,0)

(viii) (0,a) (ix) (b,0)



[Watch Video Solution](#)

Try These

1. Which axis the points such as (0,x) (0,y) (0,2) and (0,-5) lie on? Why?



[Watch Video Solution](#)

2. What is the general form of the points which lie on X-axis?



Watch Video Solution